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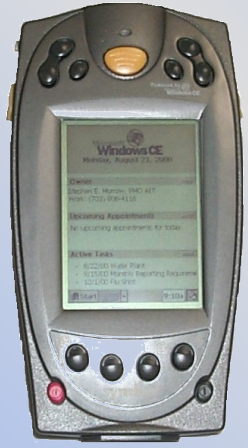
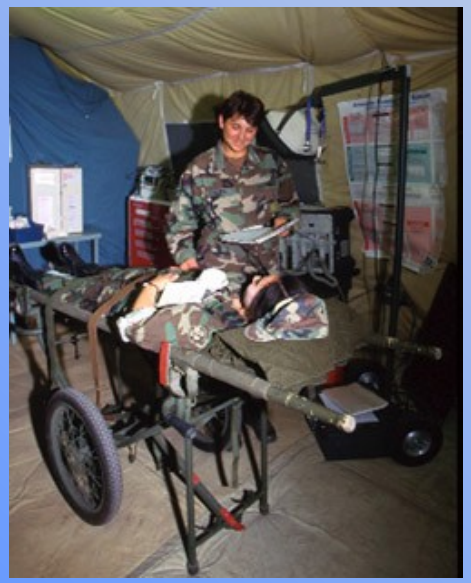


AFCEA - Belvoir
PEO EIS Industry Day



Mr. William R. Smith

Project Manager

nse Communications and

Army Switched Systems

Mission

Acquire and sustain upgrades/modernization of voice and data networks in support of the Installation Information Infrastructure Programs worldwide.

- Rebuilds the Army's infrastructure
- Has the diverse programs for data, voice, and cable plant that are rebuilding the sustaining base and providing reachback
- Enables the warfighting mission by providing global data and voice systems
- Supports the objective force, AKM, and Army transformation with I3MP and DSSMP
- DCASS is also PM for Installation Information Assurance Architecture (I2A2)

PM DCASS Presence (FY96-FY03)

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Voice Program

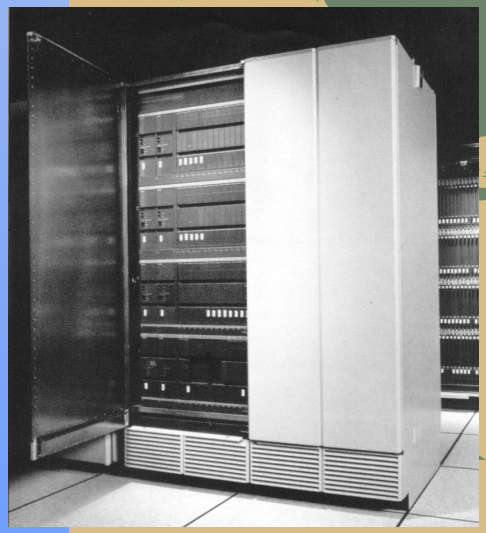
Today

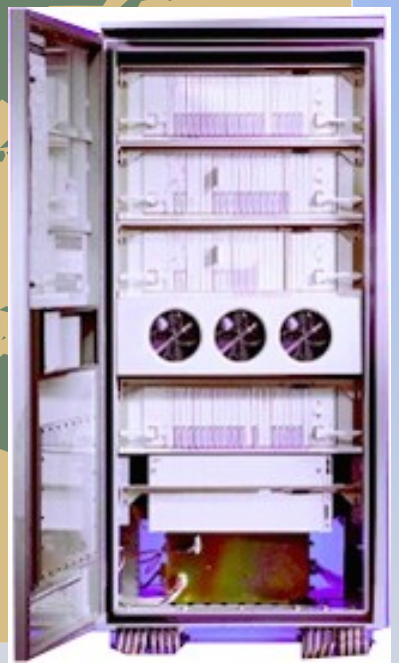
- Digital Switches
- Extremely Reliable
- Health and Morale Call
- VoIP capable
- Military Unique Features

DSSMP is a Key component Of I3MP

2004 - 2009

- Replacement or upgrade of switches not DSN Interoperable Certified
- Install latest technology convergence
- IP based service
- Unified Messaging





- Supports Army Transformation
- Supports Army Knowledge Management
- Supports split based operations and power projection
- Fielding based on Army approved priority (Mini ISL)

Data Program

Common User Installation Transport Network (CUITN)

- Campus Area Network (CAN) Solution
  - Transport high-volume, near real time data throughout installation and to the Defense Information Systems Network (DISN) in support of sustainment, contingencies, and split-based operations
- Characteristics
  - COTS / NDI “State of the shelf” technology
  - Capable of guaranteeing 10 Megabits to the desktop
  - Secure
- Enables
  - Server Consolidation; massive file transfer; web-based applications; collaboration; streaming video
  - Army Enterprise and Army Knowledge Management
  - Reachback!

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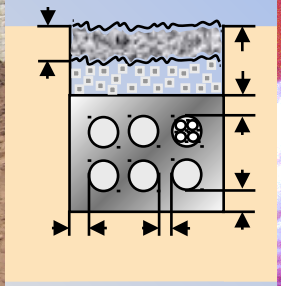
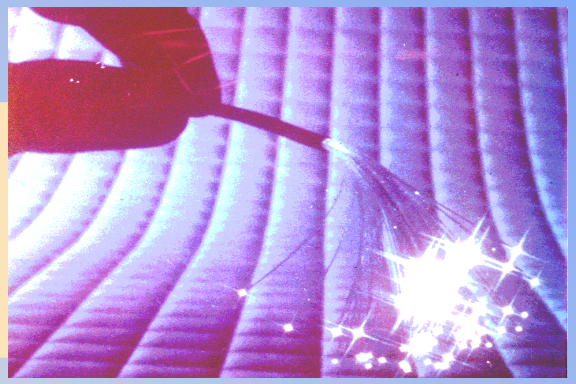
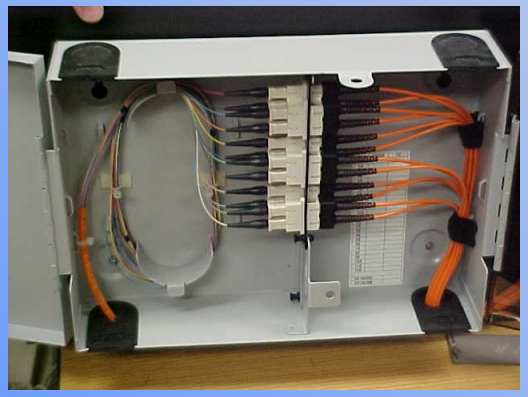
Outside Plant







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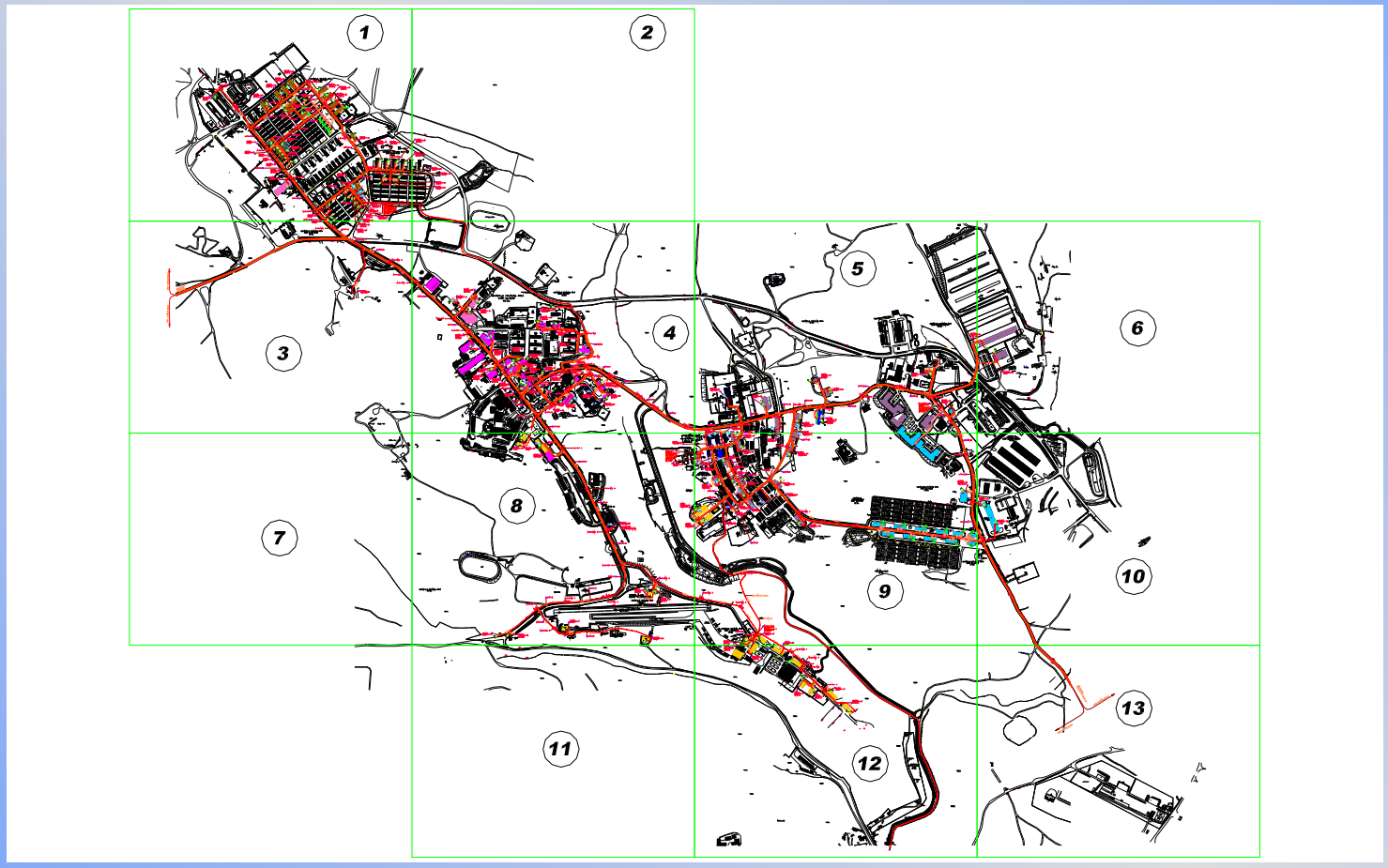
I3MP Construction Activities (Hohenfels Example)



130 Total Buildings: 6 - Tier 1 Buildings, 2 - Tier 2 Buildi
and122 - Tier 3 Buildings

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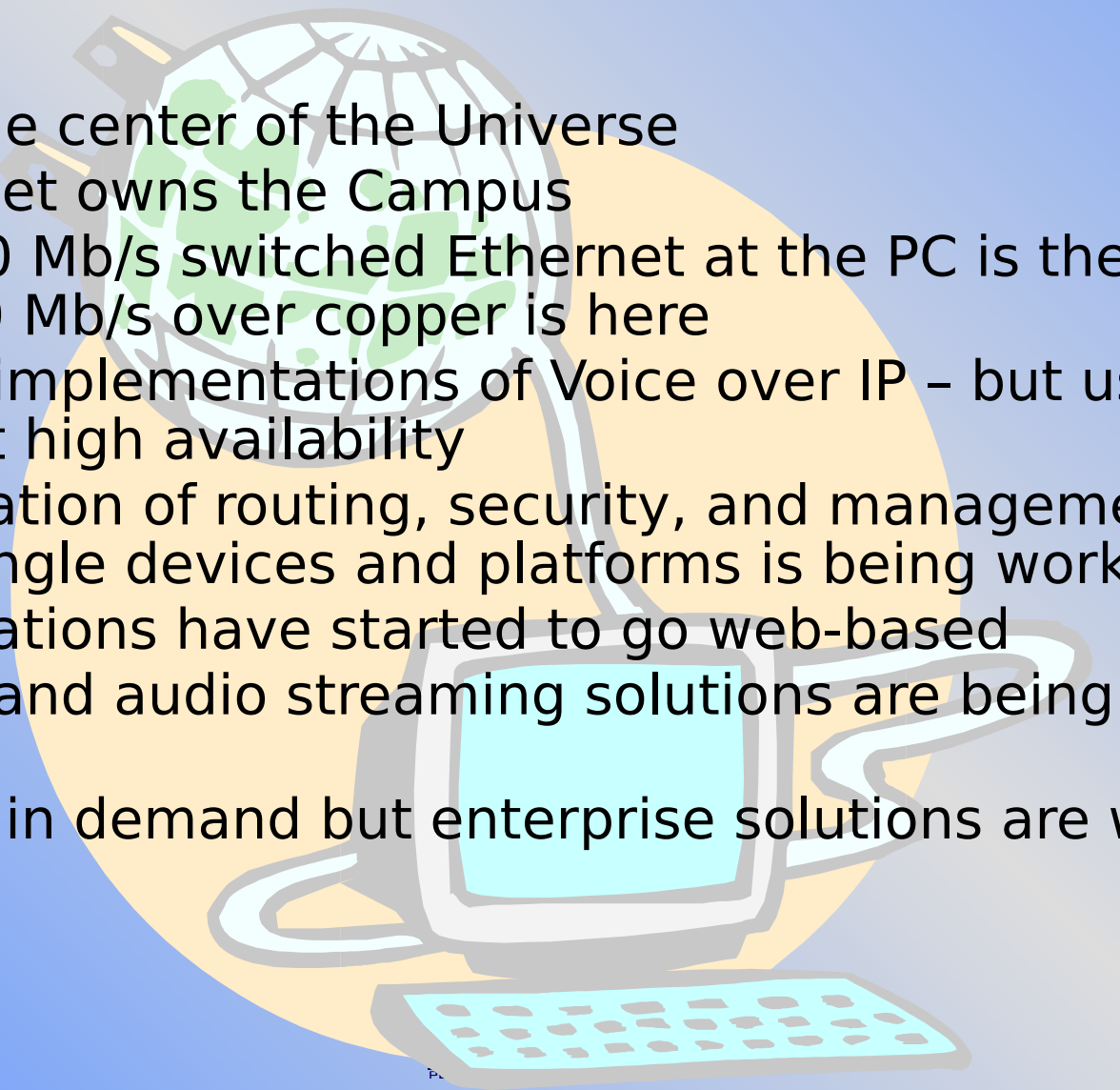
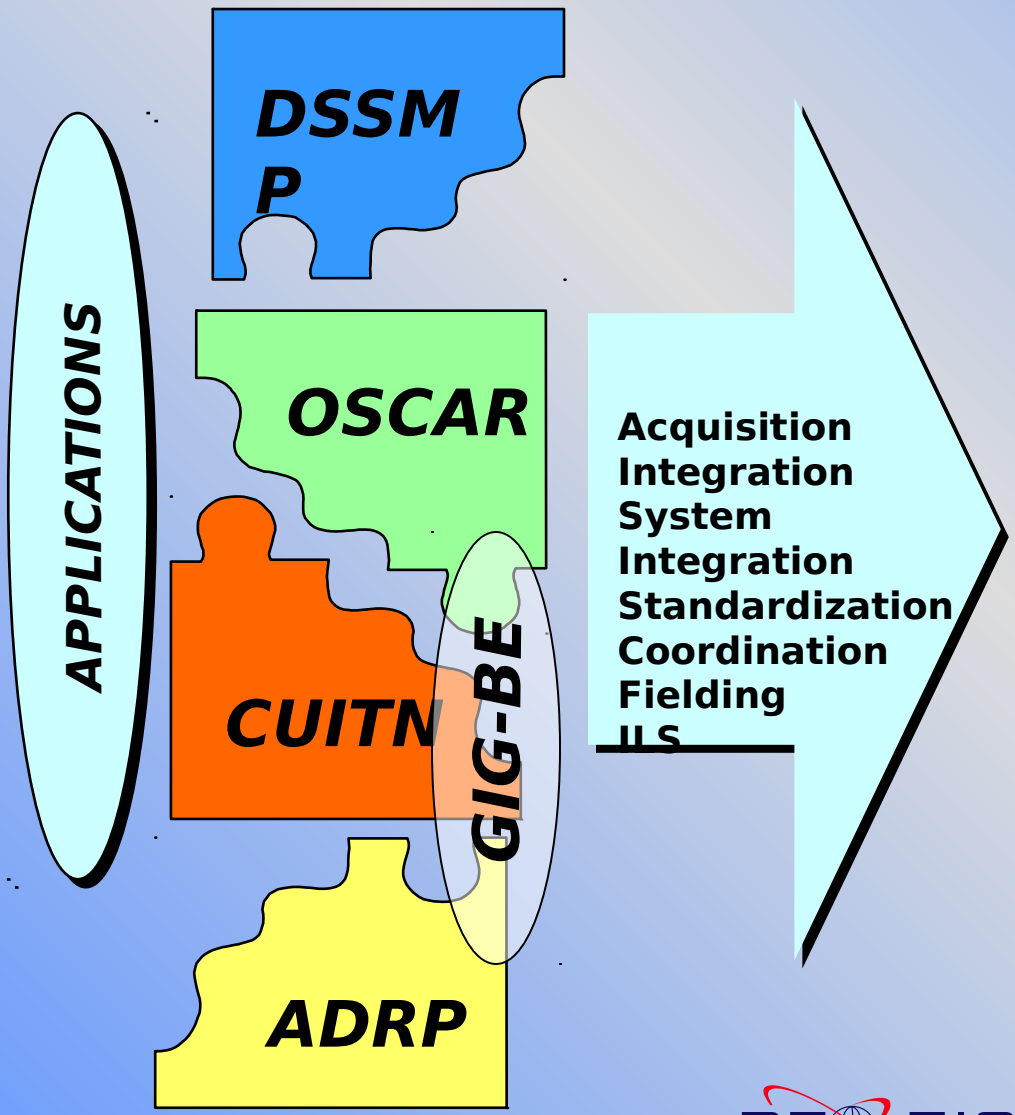
Technology
What's Happening Now



- IP is the center of the Universe
- Ethernet owns the Campus
- 10/100 Mb/s switched Ethernet at the PC is the norm – 1000 Mb/s over copper is here
- Small implementations of Voice over IP – but users expect high availability
- Integration of routing, security, and management into single devices and platforms is being worked on
- Applications have started to go web-based
- Video and audio streaming solutions are being put forth
- VTC is in demand but enterprise solutions are weak

I3MP Synchronization



- Bandwidth on Demand
- Synchronized Solutions
- Configuration Control
- Open Systems Architecture

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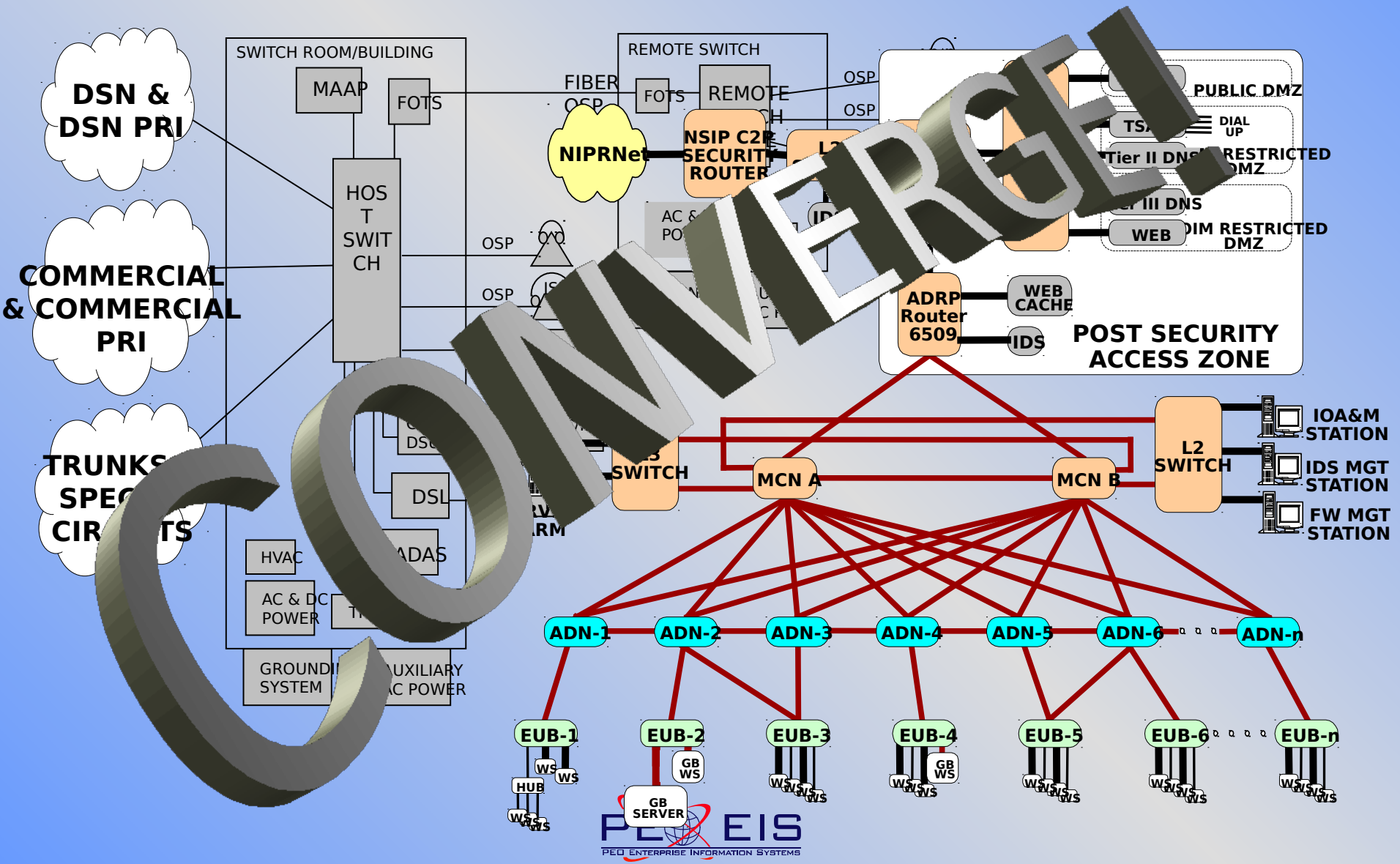
Future


DSN & DSN PRI
COMMERCIAL & COMMERCIAL PRI
TRUNKS SPEC CIR TS
SWITCH ROOM/BUILDING
MAAP
FOTS
HOS T SWIT CH
OSP
OSP
DSL
HVAC
AC & DC POWER
GROUNDI SYSTEM
UXILIARY C POWER
REMOTE SWITCH
FIBER OSP
FOTS
REMOTE
OSP
OSP
NIPRNet
NSIP C2P SECURITY ROUTER
AC & PO
SWITCH
MCN A
MCN B
L2 SWITCH
PUBLIC DMZ
TSA
DIAL UP
Tier II DNS
RESTRICTED DMZ
III DNS
WEB
DIM RESTRICTED DMZ
ADRP Router 6509
WEB CACHE
IDS
POST SECURITY ACCESS ZONE
IOA&M STATION
IDS MGT STATION
FW MGT STATION
ADN-1
ADN-2
ADN-3
ADN-4
ADN-5
ADN-6
ADN-n
EUB-1
EUB-2
EUB-3
EUB-4
EUB-5
EUB-6
EUB-n
HUB
WS
GB WS
GB SERVER
CONVERGE!
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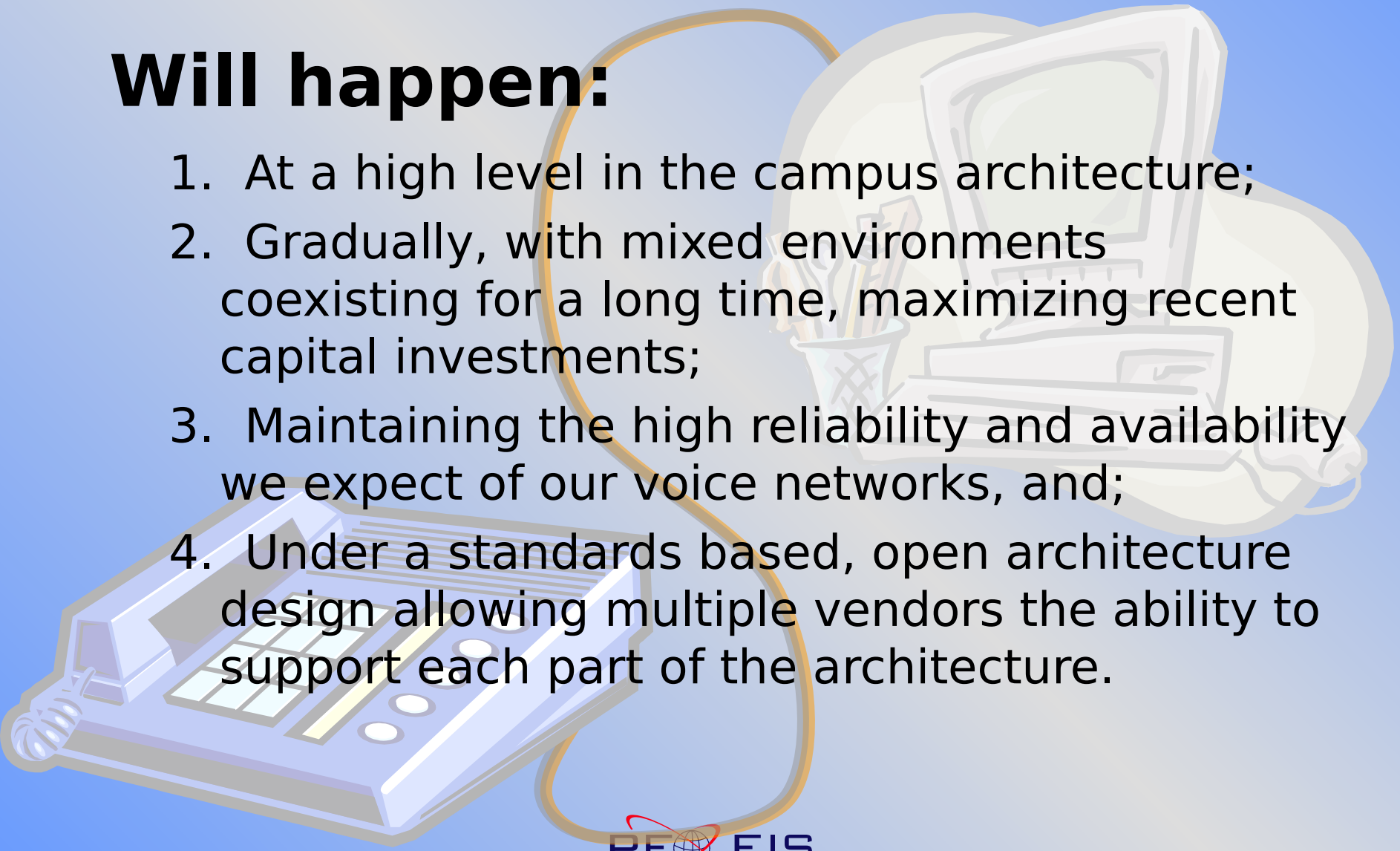
Convergence

Will happen:

1. At a high level in the campus architecture;
2. Gradually, with mixed environments coexisting for a long time, maximizing recent capital investments;
3. Maintaining the high reliability and availability we expect of our voice networks, and;
4. Under a standards based, open architecture design allowing multiple vendors the ability to support each part of the architecture.



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Technology
What's Coming

- IP Version 6 will be phased in
- Ethernet will continue to be the defacto campus solution
- Voice over IP will mature over the next 3 years but won't immediately replace installation telephone switches
- Information assurance will become mainstream with high-bandwidth, integrated solutions for data networks and telephone switches
- Web-based applications will be the norm in the Army – legacy apps will slowly be replaced under AKM
- Collaborative tools, multimedia (video and audio), and VTC will become common desktop toolsets
- Server consolidation will happen

Proposed DCASS Organization

PM DCASS

DPM DCASS

Business Management Division

Technical Management Division

PM DCS Europe

PM DCS CONUS

PM DCS Pacific

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Contract Dollars

FY	01	02	03	04	05	06	07
$$	128	194	280	330	350	390	400

Dollars in millions
Program funds only. Additional customer funds of approx $25M/y
FY03 estimate is low due to operational impact uncertainty

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PROJECT MANAGER
Defense Communications and Army Switched Systems
DSSMP
DDN
OSCAR
DCS-E
BMD